

Serial No.: 10/726,891

IN THE CLAIMS:

1. (Currently Amended) An ancillary equipment for testing a semiconductor integrated circuit, comprising:

a device measuring unit comprising a measuring section and an analyzing section, the measuring section for exchanging a signal with a device to be measured, which device comprises a semiconductor integrated circuit mounted on a device measuring unit circuit board, the analyzing section for analyzing information from the measuring section by using a programmable device; and

a control/communication card comprising a board different from said device measuring unit circuit board, said control/communication card being connected to the device measuring unit to control the device measuring unit and for sending analyzed results back to carrying out communication with a general-purpose computer and receiving a diagnostic signal.

2. (Previously Amended) The ancillary equipment according to claim 1, wherein the control/communication card comprises a data input section for acquiring data from the device measuring unit, a control signal output section for transmitting a control signal to the device measuring unit, and an interface for exchanging a signal with a general-purpose computer.

Serial No.: 10/726,891

3. (Previously Amended) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a program writing port to allow a program to be written on a programmable device from a general-purpose computer.

4. (Previously Amended) The ancillary equipment according to claim 1, wherein the device measuring unit or the control/communication card comprises a terminal for receiving an input/output signal and an internal signal of the device measuring unit.

5. (Previously Amended) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a first connector for connection via a cable with a substrate having a socket for mounting a device to be measured, and a second connector for insertion directly into the substrate.

6. (Previously Amended) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a plurality of input terminals for receiving signals from a plurality of circuits located on the device, and an input signal selector for selecting and switching signals from the plurality of input terminals.

Serial No.: 10/726,891

7. (Previously Amended) The ancillary equipment according to claim 1, wherein the control/communication card comprises a device measuring unit diagnosing unit for transmitting a diagnostic signal for diagnosing the device measuring unit to the device measuring unit and for transferring diagnostic result data from the device measuring unit to a general-purpose computer.

8. (Previously Amended) The ancillary equipment according to claim 1, further comprising a plurality of device measuring units for performing a test using one or more of the device measuring units.

9. (Previously Amended) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a program writing port for permitting a program to be written on the programmable device of the device measuring unit from a general-purpose computer, and the programmable device is a Flash-ROM.

10. (Previously Amended) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a socket for mounting thereon a device to be measured.